APPLICATION OF GUIDED INQUIRY LEARNING METHOD TO IMPROVE STUDENT'S CONCEPT MASTERY ON BASIC DIGITAL ELECTRONICS OF THE STUDENTS GRADE X AV 1 SMK NEGERI 2 YOGYAKARTA 2010/2011 SCHOOL YEAR

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ABSTRACT

The aim of this research is to know the improvement of student's concept mastery in learning Basic Digital Electronics through Guided Inquiry Learning Method application on Logic Gate discussion subject of students grade X AV 1 SMK Negeri 2 Yogyakarta 2010/2011 school year.

This research is categorized into Classroom Action Research Study applying for Guided Inquiry Learning Method. This research was conducted in two cycles in which every cycle consisted of planning an action, implementing, observation, and reflection. The subejct of the research is students of grade X AV 1 SMK Negeri 2 Yogyakarta. The data was collected by test, observation, field notes, and documentation. The data was analised by Miles-Huberman analysis technique that was start from data collecting, data reduction, data presentation until find the research conclution.

The research finding shows that students learning achievement increased in each cycle. In the cycle I, students' learning mastery was 66,67%(24 students from 36 students), then it increased become 77,78% (28 students) in the cycle II, with learning achievement attainment indicator getting the better of the number was decisioned, that are 70% from all of the students get 76 minimal point. Students' active involvement in learning process increased in every cycle. Students' active involvement in aperception (orientation and problem formulation) increased from 22,92% (cycle I) become 31,25% (cycle II). Students' active involvement in the group discussion session (hypotheses formulation) increased from 39,81% (cycle I) become 52,78% (cycle II). Students' active involvement in the lab work session (data collection and hypotheses testing) increased from 61,11% (cycle I) become 75,00% (cycle II). Students' active involvement in the conclution formulation increased from 37,04% (cycle I) become 53,70% (cycle II). Based on the research result, it can be concluded that the implementation of Guided Inquiry Learning Method of the students grade X AV 1 SMK Negeri 2 Yogyakarta can improve student's concept mastery in Basic Digital Electronics on Logic Gate discussion subject.

Key Words : ***Improving Student's Concept Mastery, Basic Digital Electronics, Guided Inquiry.***